IN THE CLAIMS

Please cancel claim 2 without prejudice to Applicants' right to pursue claim 2 in a continuing application.

Please amend the claims as follows:

1. (Amended): A process for preparing a 6-O-methylerythromycin A derivative represented by the formula:

$$\begin{array}{c} \text{CH}_3 \\ \text{CH}_3 \\ \text{CH}_3 \\ \text{HO} \\ \text{HO} \\ \text{CH}_3 \\ \text{C$$

wherein R¹ is:

a 2-alkenyl group having 3 to 15 carbon atoms,

a benzyl group, or

a benzyl group [substitued] <u>substituted</u> by 1 to 3 of a chlorine atom, an alkoxy group having 1 to 4 carbon atoms, a nitro group or an alkoxycarbonyl group having 2 to 6 carbon atoms, and

R² and R³ are trimethylsilyl,

which comprises reacting, in any desired sequence, erythromycin A 9-oxime with a compound of formula R^1 —X (wherein R^1 is as defined above, and X is a halogen atom) and with a substituted silylating agent having an R^2 group to give a compound represented by the formula[;]:

(wherein R¹, R² and R³ are as defined above), and then reacting said compound of formula II with a methylating agent selected from the group consisting of methyl bromide, methyl iodide, dimethyl sulfate, methyl p-toluene sulfonate and methyl methane sulfonate, the amount of said methylating agent being 1-3 molar equivalents of said compound of formula II, said trimethylsilyl group (R²) protecting the 2' hydroxyl group against methylation and preventing the 3'-dimethylamino group from being quaternized with the methylating agent.

3. (Amended): A process for preparing 6-O-methylerythromycin A comprising:

reacting, in any desired sequence, erythromycin A 9-oxime with a

compound of formula R¹—X (wherein R¹ is as defined below,

and X is a halogen atom) and with a substituted silylating agent

having an R² group to give a compound represented by the

formula:

wherein R¹ is:

a 2-alkenyl group having 3 to 15 carbon atoms, a benzyl group, or

a benzyl group substituted by 1 to 3 of a chlorine atom, an alkoxy group having 1 to 4 carbon atoms, a nitro group or an alkoxycarbonyl group having 2 to 6 carbon atoms, and

R² and R³ are trimethylsilyl;

then reacting said compound of formula II with a methylating agent selected from the group consisting of methyl bromide, methyl iodide, dimethyl sulfate, methyl p-toluene sulfonate and methyl methane sulfonate, the amount of said methylating agent being 1-3 molar equivalents of said compound of formula II, said trimethylsilyl group (R²) protecting the 2' hydroxyl group against methylation and preventing the 3'-dimethylamino group from being quaternized with the methylating agent;

then eliminating in any desired sequence the R^1 , R^2 , and R^3 groups, wherein the elimination of R^1 is performed by hydrogenolysis; and then, deoximating with a deoximating agent.

4. (Amended): A process for preparing 6-O-methylerythromycin A comprising:

reacting, in any desired sequence, erythromycin A 9-oxime with a

compound of formula R¹—X (wherein R¹ is as defined below,

and X is a halogen atom) and with a substituted silylating agent

having an R² group to give a compound represented by the

formula:

wherein R¹ is:

a 2-alkenyl group having 3 to 15 carbon atoms,

a benzyl group, or

a benzyl group substituted by 1 to 3 of a chlorine atom, an alkoxy group having 1 to 4 carbon atoms, a nitro group or an alkoxycarbonyl group having 2 to 6 carbon atoms, and

R² and R³ are trimethylsilyl;

then reacting said compound of formula II with a methylating agent selected from the group consisting of methyl bromide, methyl iodide, dimethyl sulfate, methyl p-toluene sulfonate and methyl methane sulfonate, the amount of said methylating agent being 1-3 molar equivalents of said compound of formula II, said trimethylsilyl group (R²) protecting the 2' hydroxyl group against methylation and preventing the 3'-dimethylamino group from being quaternized with the methylating agent; eliminating in any desired sequence the R¹, R², and R³ groups, wherein the elimination of R² and R³ is performed by treatment with acid in an alcohol;

and then, deoximating with a deoximating agent.

5. (Amended): A process for preparing 6-O-methylerythromycin A comprising:
 reacting, in any desired sequence, erythromycin A 9-oxime with a
 compound of formula R¹—X (wherein R¹ is as defined below,
 and X is a halogen atom) and with a substituted silylating agent
 having an R² group to give a compound represented by the
 formula:

wherein R¹ is:

a 2-alkenyl group having 3 to 15 carbon atoms,

a benzyl group, or

a benzyl group substituted by 1 to 3 of a chlorine atom, an alkoxy group having 1 to 4 carbon atoms, a nitro group or an alkoxycarbonyl group having 2 to 6 carbon atoms, and

R² and R³ are trimethylsilyl;

then reacting said compound of formula II with a methylating agent selected from the group consisting of methyl bromide, methyl iodide, dimethyl sulfate, methyl p-toluene sulfonate and methyl methane sulfonate, the amount of said methylating agent being 1-3 molar equivalents of said compound of formula II, said trimethylsilyl group (R²) protecting the 2' hydroxyl group against methylation and preventing the 3'-dimethylamino group from being quaternized with the methylating agent;

eliminating in any desired sequence the R¹, R², and R³ groups,
wherein the elimination of R² and R³ is performed by treatment
with tetrabutyl ammoniumfluoride in tetrahydrofuran;
and then, deoximating with a deoximating agent.